BRUHATH BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

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E-BILL CALCULATION SHEET

NAME OF WORK: Construction of Concrete road and drains at Ambedkar nagara colony.

JOB CODE:004-23-000002

ESTIMATE COST :Rs.100.00 LAKHS

YELAHANKA SATALITE TOWN SUB DIVISION,

BBMP, BANGALORE-64

BRUHAT BANGALORE MAHANAGARA PALIKE

FIRST AND FINAL BILL

Division	Yelahanka
Sub division	Yelahanka settelite town
Head of Account	P-3898 Development/Improvement of ward works
Estimated cost	100 Lakhs
Name of the Contractor	Sri.CHANDAN.N
Job number	004-23-000002
Work order no.	BBMP/EE/YNK.D/EPMT-12/W.O./39/2023-24 Date:09.03.2024
Date of Commencement	

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Recorded On

Item no. 1

Item Name: Removing and Resetting of Foootpath slab(Approved Rate)

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	3rd main road cross road	2	30.00	0.90	-	54.00		
		2	30.00	0.90	-	54.00		
	connecting Roads	2	10.00	0.90	-	18.00		
		4	30.00	0.75	-	90.00		
		1	10.00	0.75	-	7.50		
		1	30.00	0.75	-	22.50		
		1	30.00	0.75	-	22.50		
		1	20.00	0.75	-	15.00		
		1	30.00	0.75	-	22.50		
		1	30.00	0.75	-	22.50		
		1	20.00	0.75	-	15.00		
		1	30.00	0.75	-	22.50		
		1	30.00	0.75	-	22.50		
		1	30.00	0.75	-	22.50		
		1	30.00	0.75	-	22.50		
	Missing Slabs 30%					433.50		
						-130.05		
					Total	303.45	Sqm	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Recorded On 10/03/24

Item no. 2

Item Name: Earth work in surface excavation for stripping, seating of bund, Road way, by manual means for lowering &leveling the ground for all works other than foundation& depth in all kinds of soil not exceeding 300mm as per drawing and technical specifications, includingsetting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work loading and unloading of stone boulder/stone aggregates /sand/Kankar/Moorum(Tipper 14 m3) complete as per the direction of Engineer in Charge of the work.

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	3rd main road cross road	2	30.00	0.60	0.45	16.20		
		2	30.00	0.60	0.45	16.20		
1	connecting Roads	2	10.00	0.60	0.45	5.40		
		4	30.00	0.45	0.45	24.30		
		1	10.00	0.45	0.45	2.03		
		1	30.00	0.45	0.45	6.08		
		1	30.00	0.45	0.45	6.08		
		1	20.00	0.45	0.45	4.05		
		1	30.00	0.45	0.45	6.08		
		1	30.00	0.45	0.45	6.08		
		1	20.00	0.45	0.45	4.05		
		1	30.00	0.45	0.45	6.08		
		1	30.00	0.45	0.45	6.08		
		1	30.00	0.45	0.45	6.08		
	RCC Drain							
	1st Main Road	4	30.00	1.10	1.00	132.00		
	2nd Main Road & connecting Roads	2	10.00	1.10	1.00	22.00		
		3	30.00	1.10	1.00	99.00		
	3rd Main Road & connecting Roads	1	10.00	1.10	1.00	11.00		
		4	30.00	1.10	1.00	132.00		
	Connecting Drain from SWD to End.	1	10.00	1.10	1.00	11.00		
		2	30.00	1.40	1.20	100.80		
	Near Ayyappa Temple SWD conective drain	3	20.00	1.40	1.20	100.80		
		1	30.00	1.40	1.20	50.40		
	RCC Culvert	1	20.00	1.40	1.20	33.60		
	Ayyappa temple surrounding area	2	5.00	1.50	1.00	15.00		
	CC Road	1	20.00	3.00	0.40	24.00		
		1	30.00	3.00	0.40	36.00		
		1	8.70	11.70	0.40	40.72		
		1	3.10	4.10	0.40	5.08		
		1	20.00	8.00	0.50	80.00		
		1	15.00	6.00	0.50	45.00		
	Deduct Voids 10%				Subtotal	1059.23		
						-105.92		
					Total	953.30		
					Limited to	943.76		

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Recorded On 03/04/24 to 05/04/24

Item no. 3

Item Name: Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators,including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.Mix 1:3:6 Using 40 mm nominal size graded crushed coarse aggregates

Sl.	Perticulars	No.	Dimensio			Qty.	Unit	Remarks
			L	B	D			
	RCC Drain							
	1st Main Road	4	30.00	1.10	0.15	19.80		
	2nd Main Road & connecting Roads	2	10.00	1.10	0.15	3.30		
		3	30.00	1.10	0.15	14.85		
	3rd Main Road & connecting Roads	1	10.00	1.10	0.15	1.65		
		4	30.00	1.10	0.15	19.80		
	Connecting Drain from SWD to End.	1	10.00	1.10	0.15	1.65		
		2	30.00	1.40	0.15	12.60		
	Near Ayyappa Temple SWD conective drain	3	20.00	1.40	0.15	12.60		
		1	30.00	1.40	0.15	6.30		
	RCC Culvert							
	Ayyappa temple surrounding area	1	20.00	1.40	0.15	4.20		
	CC Road	2	5.00	1.50	0.15	2.25		
		1	8.70	11.70	0.15	15.27		
		1	3.10	4.10	0.15	1.91		
		1	20.00	8.00	0.15	24.00		
		1	15.00	6.00	0.15	13.50		
					Total	153.68		
				Limited to		99.00	Cum	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Recorded On 11/04/24

Item no. 4

Item Name: Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening,cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	Consider 60kgs/Cum for drain	1	116.55	60.00		6993.00		
	Consider 75kgs/Cufor SWD Connecting Drainm	1	76.50	75.00		5737.50		
	Consider 90kgs/cum for culvert.	1	4.70	90.00		423.00		
						13153.50	Kgs	
						13.15	Tonne	

Assist Engineer
ward no.04

Assist Executive Enginer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Recorded On 16/04/24 to 23/05/24

Item no. 5

Item Name Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications (The cost of steel reinforcement & formwork to be paid separately)M20 Design Mix using 20mm nominal size graded crushed coarse aggregates.

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	RCC Drain Raft							
	1st Main Road	4.00	30.00	0.90	0.15	16.20		
		2.00	10.00	0.90	0.15	2.70		
	2nd Main Road & connecting Roads	3.00	30.00	0.90	0.15	12.15		
		1.00	10.00	0.90	0.15	1.35		
	3rd Main Road & connecting Roads	4.00	30.00	0.90	0.15	16.20		
		1.00	10.00	0.90	0.15	1.35		
	RCC Drain Wall							
	1st Main Road 30+30+10=70	4.00	70.00	0.15	0.60	25.20		
	2nd Main Road & connecting Roads 30+30+30+10=100	2.00	100.00	0.15	0.60	18.00		
	3rd Main Road & connecting Roads30+30+30+30+10=130	2.00	130.00	0.15	0.60	23.40		
					Total(a)	116.55		
	Connecting Draine fromSWD to End (Raft) 2*30+3*20=120	1.00	120.00	1.20	0.15	21.60		
	Near Ayyappa Temple Cross drain	1.00	30.00	1.20	0.15	5.40		
		1.00	20.00	1.20	0.15	3.60		
	Connecting Draine fromSWD to End (wall)	2.00	120.00	0.15	0.90	32.40		
		2.00	30.00	0.15	0.90	8.10		
		2.00	20.00	0.15	0.90	5.40		
					Total(b)	76.50		
	RCC Culvert							
	RCC Culvert (Raft)	2.00	5.00	1.20	0.20	2.40		
	RCC Culvert (Wall)	4.00	5.00	0.23	0.50	2.30		
					Total(c)	4.70		
					Grand Total(a+b+c)	197.75	Cum	

Assist Engineer
ward no.04

Assist Executive Enginer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Measurement Recorded On 03/05/24

Item no. 6

Item Name: Providing and fixing precast reinforced cement concrete covering slabs of 10cm thick made of M20 with OPC cement concrete with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregates & 0.74 cum with superplasticizer machine mixed including providing and removing centring shuttering,strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labours,all lead and lift,HOM of machinery curing including cost of reinforcement etc., complete as directed by the Engineer in charge of the work

Sl. No.	Particulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	Ambedikar nagar colony							
	1st Main Road	1.00	30.00	0.90	-	27.00		
		1.00	30.00	0.90	-	27.00		
		1.00	10.00	0.90	-	9.00		
		1.00	30.00	0.90	-	27.00		
		1.00	30.00	0.90	-	27.00		
	2nd Main Road & connecting Roads	1.00	10.00	0.90	-	9.00		
		1.00	30.00	0.90	-	27.00		
		1.00	30.00	0.90	-	27.00		
		1.00	30.00	0.90	-	27.00		
	3rd Main Road & connecting Roads	1.00	10.00	0.90	-	9.00		
		1.00	30.00	0.90	-	27.00		
		1.00	30.00	0.90	-	27.00		
		1.00	30.00	0.90	-	27.00		
		1.00	30.00	0.90	-	27.00		
	Connecting Draine fromSWD to End (Raft)	1.00	10.00	0.90	-	9.00		
	2*30+3*20=120	1.00	120.00	1.20	-	144.00		
	Near Ayyappa Temple Cross drain	1.00	30.00	1.20	-	36.00		
		1.00	20.00	1.20	-	24.00		
	Damaged /missing slabs from item no.01	1.00	30.00	0.90	-	27.00		
		1.00	50.00	0.90	-	45.00		
		1.00	65.00	0.90	-	58.50		
						667.50	Sqm	

Assist Engineer
ward no.04

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Measurement Recorded On 03/05/24

Item no. 7

Item Name: Providing and fixing precast reinforced cement concrete covering slabs of 23cm thick made of M25 with OPC cement @340kgs/cum with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates & 0.74 cum with superplasticizer machine mixed including providing and removing centring shuttering,strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labours,all lead and lift,HOM of machinery curing including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	For RCC Culvert	2	5	1.20	-	12.00		
					Total	12.00	Sqm	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Recorded On 04/06/24

Item no. 8

Item Name: Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.In all kinds of soils upto 300 mm depth

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	For Asphalt edge correction & Damaged portion/Pipe line cut Portion							
	15th A cross road to 1st Main Road upto Culvert =30+30+8.50=68.50m	2	68.50	0.60	0.25	20.55		
	15th A cross road to 7th A Main Road =18.00m	2	18.00	0.60	0.25	5.40		
	15th A cross road 30+3.50=33.50m	2	33.50	0.60	0.25	10.05		
	16th A cross road =30+30+20=80.00m	2	80.00	0.60	0.25	24.00		
						60.00	Cum	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Recorded On 21/05/24 to 23/05/24

Item no. 9

Item Name: Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixingthe Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	For Asphalt edge correction & Damaged portion/Pipe line cut Portion							
	15th A cross road to 1st Main Road upto Culvert =30+30+8.50=68.50m	2	68.50	0.60	0.225	18.50		
	15th A cross road to 7th A Main Road =18.00m	2	18.00	0.60	0.225	4.86		
	15th A cross road 30+3.50=33.50m	2	33.50	0.60	0.225	9.05		
	16th A cross road =30+30+20=80.00m	2	80.00	0.60	0.225	21.60		
						54.00	Cum	

Assist Engineer
ward no.04

Assist Executive Enginer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Recorded On 04/06/24

Item no. 10

Item Name: Providing and applying primer coat with SS1 grade Bituminous Emulsion on prepared surface of granular Base including cleaning with mechanical Broom of road surface and spraying primer at the rate of 0.90 kg/m2 using mechanical means.

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	15th A cross road to 1st Main Road upto	2	68.50	0.60	-	82.20		
	15th A cross road to 7th A Main Road	2	18.00	0.60		21.60		
	15th A cross road 30+3.50=33.50m	2	33.50	0.60		40.20		
	16th A cross road =30+30+20=80.00m	2	80.00	0.60		96.00		
					Total	240.00	Sqm	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Measurement Recorded On 05/06/24

Item no. 11

Item Name: Providing and applying tack coat with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	15th A cross road to 1st Main Road upto	1	68.50	8.40	-	575.40		
	15th A cross road to 7th A Main Road	1	18.00	7.10	-	127.80		
	16th A cross road =30+30+2=62.00m	1	62.00	8.10	-	502.20		
					Total	1205.40		
					Limited to	1200.00	Sqm	

Assist Engineer
ward no.04

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Recorded On 29/05/24 to 04/06/24

Item no. 12

Item Name: Providing and laying **Dense Graded Bituminous Macadam** with 40/60 TPH capacity HMP using crushed aggregates of specifiedgrading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	15th A cross road to 1st Main Road upto Culvert =30+30+8.50=68.50m	2	68.50	0.65	0.05	4.45		
	15th A cross road to 7th A Main Road =18.00m	2	18.00	0.65	0.05	1.17		
	15th A cross road 30+3.50=33.50m	2	33.50	0.65	0.05	2.18		
	16th A cross road =30+30+20=80.00m	2	80.00	0.65	0.05	5.20		
					Total	13.00	Cum	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Measurement Recorded On 31/05/24 to 05/06/24

Item no. 13

Item Name: Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	15th A cross road to 1st Main Road upto Culvert =30+30+8.50=68.50m	1	68.50	8.40	0.04	23.02		
	15th A cross road to 7th A Main Road =18.00m	1	18.00	7.10	0.04	5.11		
	16th A cross road =30+30+2=62.00m	1	62.00	8.10	0.04	20.09		
						48.22		
					Limited to	48.00	Cum	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Measurement Recorded On 06/06/24

Item no. 14

Item Name: Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm,aggregate cement ratio not to exceed 14:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 140 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 7 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t

Sl.	Perticulars	No.	Dimensio			Qty.	Unit	Remarks
			L	B	D			
	Sanitary cut portion	1	30.00	0.60	0.10	1.80		
		1	30.00	0.60	0.10	1.80		
		1	30.00	0.60	0.10	1.80		
		1	30.00	0.60	0.10	1.80		
		1	25.00	0.60	0.10	1.50		
	New RCC Road near Temple surrounding	1	30.00	3.00	0.15	13.50		
		1	20.00	3.00	0.15	9.00		
					Total	31.20	Cum	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Measurement Recorded On 11/06/24 - 11/07/24

Item no. 15

Item Name: Providing and constructing un-reinforced plain cementconcrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383:2016:, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete withshovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
		1	20.00	8.00	0.15	24.00		
	3rd main road Cross roads	1	15.00	6.00	0.15	13.50		
		1	7.70	2.75	0.10	2.12		
		1	10.10	2.80	0.10	2.83		
		1	7.00	4.00	0.10	2.80		
		1	10.20	3.20	0.10	3.26		
	3rd main road	1	30.00	2.50	0.10	7.50		
		1	9.60	2.00	0.10	1.92		
	3rd main Left side Road	1	23.70	2.40	0.10	5.69		
		1	30.00	3.50	0.10	10.50		
		1	30.00	4.00	0.10	12.00		
		1	9.00	3.80	0.10	3.42		
	3rd main road End (left side road)	1	25.00	3.40	0.10	8.50		
		1	30.00	3.40	0.10	10.20		
		1	30.00	3.30	0.10	9.90		
		1	30.00	3.50	0.10	10.50		
	3rd main 2nd cross road	1	9.20	2.50	0.10	2.30		
		1	15.00	1.50	0.10	2.25		
	3rd main 3rd cross road	1	30.00	2.30	0.10	6.90		
		1	20.60	2.90	0.10	5.97		
	2nd Main Road 1st Cross	1	30.00	2.80	0.10	8.40		
	2nd Main Road 2nd Cross	1	16.60	2.80	0.10	4.65		
	2nd Main Road 3rd Cross	1	30.00	2.90	0.10	8.70		
	3rd main road	1	8.20	3.10	0.10	2.54		
		1	27.10	3.00	0.10	8.13		
	3rd main 2nd cross road Temple surrounding	1	27.40	2.90	0.10	7.95		
		1	27.50	3.00	0.10	8.25		
	3rd main Dead End road to Ayyappa temple road	1	30.00	3.50	0.10	10.50		
		1	30.00	3.10	0.10	9.30		
	2nd main Dead End road to Ayyappa temple road Agnikunda portion	1	25.50	2.80	0.10	7.14		
		1	30.00	2.80	0.10	8.40		
		1	16.20	2.80	0.10	4.54		
		1	30.00	3.00	0.10	9.00		
		1	12.10	4.00	0.10	4.84		
		1	10.60	9.00	0.10	9.54		
		-1	3.00	3.00	0.10	-0.90		
	3rdMain 2nd Cross to 3rd Cross Rd (Left side)	1	7.50	4.30	0.10	3.23		
		1	23.80	2.90	0.10	6.90		
		1	30.00	3.50	0.10	10.50		
		1	30.00	3.50	0.10	10.50		
		1	26.00	3.00	0.10	7.80		
					Total	295.96		
					Limited to	292.80	Cum	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Measurement Recorded On 08/06/24

Item no. 16

Item Name: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	For Edge line							
	15th A cross road to 1st Main Road upto Culvert =30+30+8.50=68.50m	2	68.00	0.10		13.60		
	15th A cross road to 7th A Main Road =18.00m	2	18.00	0.10		3.60		
	16th A cross road =30+30+2=62.00m	2	62.00	0.10		12.40		
	Cross Borders	2	52.00	0.10		10.40		
						40.00	Sqm	

Assist Engineer
ward no.04

Assist Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Measurement Recorded On

Item no. 17

Item Name: Cost of Haulage Excluding Loading and Unloading Taking output 25t load and Lead 10km=100t.km complete as per the direction of Engineer in charge of the work.

Sl. No.	Perticulars	No.	Dimensions L	B	D	Qty.	Unit	Remarks
	Qty from Item no.2		943.76	1.28		1208.01		
	Qty from Item no.8		60.00	1.28		76.80		
					Total	1284.81	T.Km	

Assist Engineer
ward no.04

ಸಹಾಯಕ Assistant Executive Engineer
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಬಿಬಿಎಂಪಿ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-64

Name of work: Construction of Concrete road and drains at Ambedkar nagara colony

Pre Measurement Record no.

Item no 4

BAR BENDING SCHEDULE FOR DRAIN, & CULVERT

Item Name: Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening,cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification

				No			L	8mm	10mm	12mm	16mm	20mm	25mm
For RCC Drain													
2x70=140m	Main rods	10	mm	1	2	468	2.05	--	1918.80	--	--	--	--
	Dist.rods	8	mm	1	2	14	76.00	2128.00	--	--	--	--	--
L-130m	Main rods	10	mm	1	1	868	2.05	--	1779.40	--	--	--	--
	Dist.rods	8	mm	1	1	14	142.00	1988.00	--	--	--	--	--
L=100m	Main rods	10	mm	1	1	668	2.05	--	1369.40	--	--	--	--
	Dist.rods	8	mm	1	1	14	108.00	1512.00	--	--	--	--	--
For RCC Drain @ SWD Drain													
L=30 +30+30+30=120m	Main rods	12	mm	1	1	801	3.20	--	--	2563.20	--	--	--
	Dist.rods	10	mm	1	1	22	130.00	--	2860.00	--	--	--	--
For RCC Drain @ SWD 0ther Drain													
L=30 +20=50m	Main rods	12	mm	1	2	334	3.20	--	--	2137.60	--	--	--
	Dist.rods	10	mm	1	2	22	55.00	--	2420.00	--	--	--	--
For RCC Culvert													
L=5.00m	Main rods	12	mm	2	2	18	2.60	--	--	187.20	--	--	--
	Dist.rods	10	mm	2	2	34	5.00	--	680.00	--	--	--	--
							Total	**5628**	**11027.60**	**4888.00**			

Abstract

Dia of Bar			Length of Bars	Wt.Kg/m	Weight	
8	mm	dia	5628.00	0.39	2194.92	
10	mm	dia	11027.60	0.62	6837.11	
12	mm	dia	4888.00	0.89	4350.32	
				Total Kgs	13382.35	
				or Tonne	**13.382**	
			Limited Quantity to		**13.15**	**Tonne**